

A.S. Hitchcock

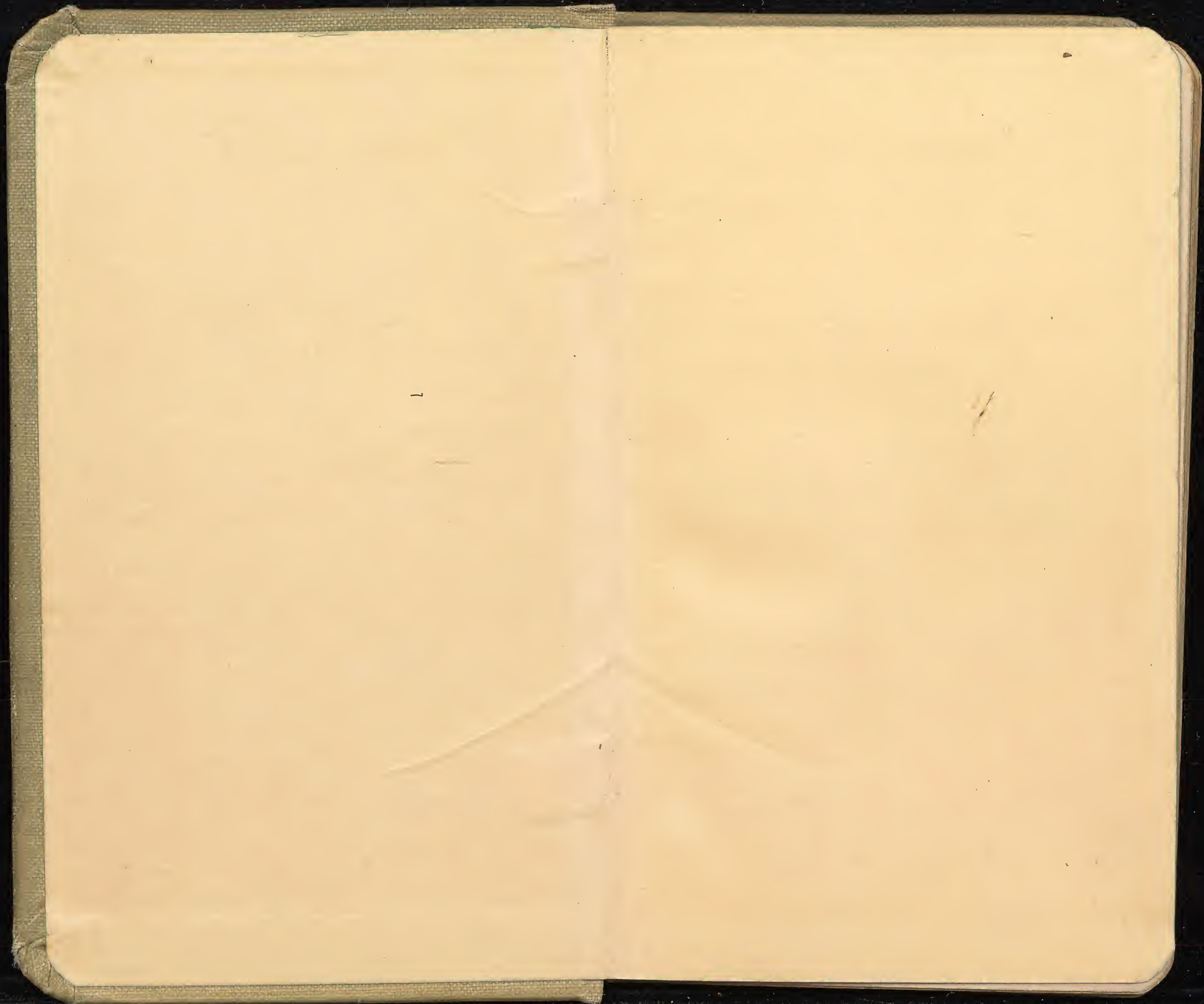
1912 - 1913

Book 3

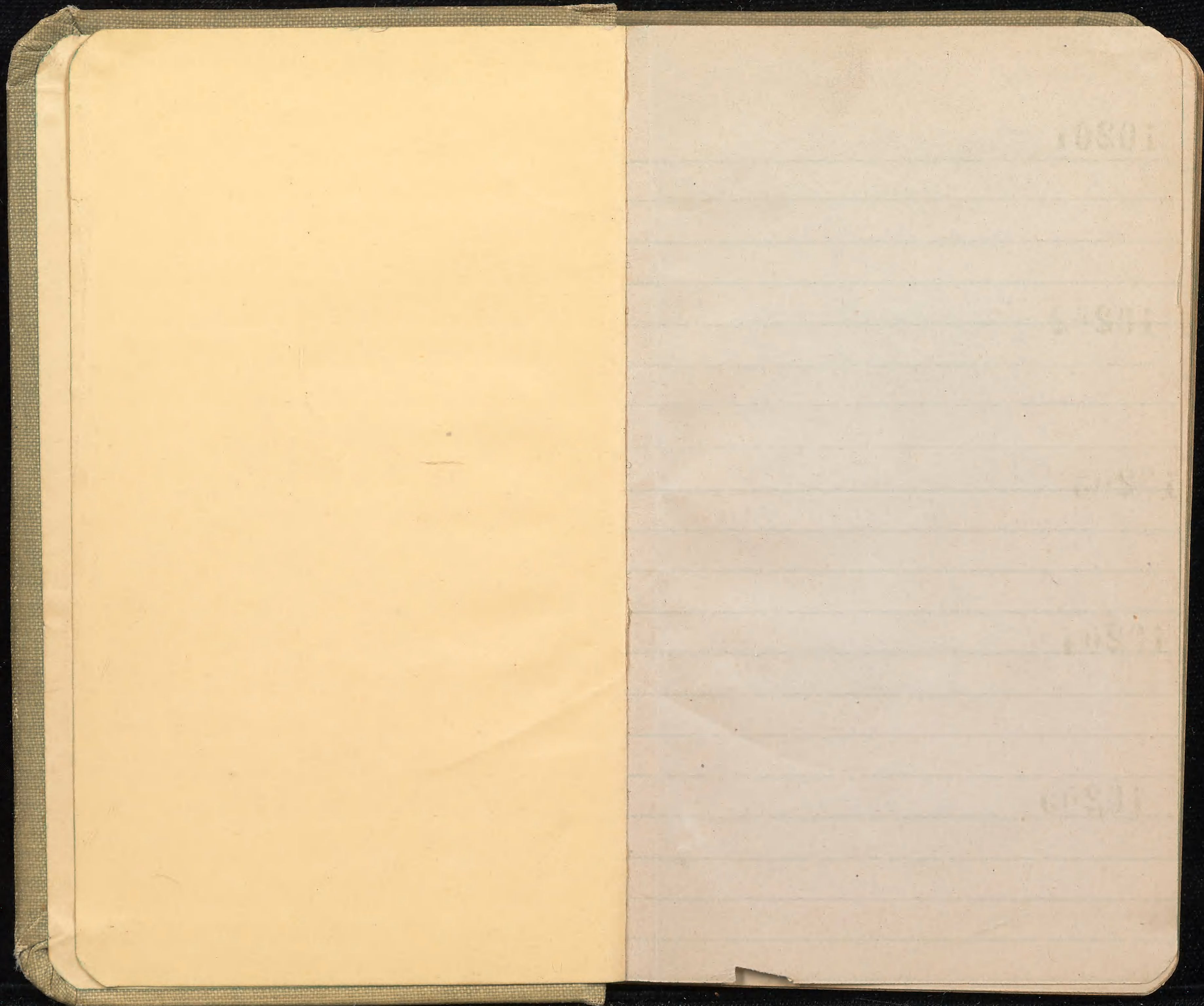
10201-10411 } 1713  
106755 }

18











Lobago - Scarborough

10201

*Paspalum*  
sengaleum?

*Paspalum virgatum* L.

10202

*Eragrostis*  
ciliaris

*Eragrostis ciliaris* (L.) Link

10203

*Eragrostis*

*Eragrostis delicatula*  
Trim.

10204

*Panicum*  
barbinode

*Panicum barbinode* Trim.

10205

*Syntherisma*  
sanguinalis

*Syntherisma sanguinalis*  
(L.) Dulac.

Dec 18

Moist plain 1930  
open ground

Along road 1931

Along ditch by road

Along road in hedge 1932

Along road 1933



10206

*Andropogon  
condensatus*

*Andropogon condensatus* Rupr.

Open ground 801

10207

*Andropogon  
bicornis*

*Andropogon bicornis* L.

Open ground

10208

*Panicum  
pilosum*

*Panicum pilosum* Sw.

Along ditch 801

10209

*Cenchrus  
echinatus*

*Cenchrus echinatus* L.

Along road 10801

10210

*Syntherisma  
digitata*

*Syntherisma digitata* (Sw.) Hitchc.

Along ditch 10801



10211 *Echinocloe*  
1 *colorum*

along ditch 1891

10212 *Panicum*  
2 *reptans*  
*Panicum reptans* L.

open ground 1891  
along road

10213 *Paspalum*  
2 *plicatulum*  
*Paspalum plicatulum*  
Michx.

open ground 1891

10214 *Coix*  
1 *lachryma-fol*  
*Coix lachryma-fol* L.

along stream 1891

10215 *Bouteloua*  
2 *americana*  
*Bouteloua americana* (L.)  
Scrim.

Grassy open ground



10216

*Panicum*  
*fasciculatum*  
*Panicum fasciculatum* Sw.

Ward in field 2501

10217

*Sporobolus*  
*littoralis*  
*Sporobolus virginicus*  
*littoralis*

Along sandy  
 sea shore

10218

*Stenotaphrum*  
*secundatum*  
*Stenotaphrum secundatum*  
 (Walt.) Ktze

Ward in field 2501  
 sea shore

10219

*Sporobolus*  
*indicus* ?  
*Sporobolus indicus* (L.)  
 R. Br.

Along road side 2502  
 beach

10220

*Andropogon*  
*perfoliatus* ?  
*Andropogon perfoliatus* panor-  
 mitarum Hack.

Along road 2503  
 seems to be in bud



10221 *Olyra latifolia*?  
4 *Olyra arundinacea* HBK.

10222 *Oplismenus*  
2 *hirtellus*

*Oplismenus hirtellus* (L.)  
R. & S. var.

10223 *Leptochloa*  
2 *virgata*

*Leptochloa virgata* (L.)  
Beauv.

10224 *Gynandropsis*  
1 *baccata*

*Gynandropsis baccata*  
(Aubl.) Beauv.

10225 *Chaetochloa*  
2 *glauca*

*Chaetochloa barbata* (Lam.)

In woods - leafy  
limb. Sam.  
is much of species  
and glaucous sheath

Shrubby woods

Open road

Along stream

Wet open place  
stem



10226 *Capriola*  
*dactylon*  
*missung*

*Capriola dactylon* (L.) Ktze

10227 *Axonopus*  
*compressus*

*Axonopus compressus* (Sw.)  
Beauv.

10228 *Paspalum*  
*conjugatum*

*Paspalum conjugatum*  
Berg.

10229 *Sporobolus*  
*jacquemontii*

*Sporobolus jacquemontii*  
Kunth

10230 *Dactyloctenium*  
*aegyptium*

*Dactyloctenium aegyptium*  
(L.) Richt.

Open ground 0.800  
along road

Grass land 0.800

Shady place 0.800

Open grass land 0.800

Along road 0.800



Wharf - Plymouth

10231

*Phragmites*

2

*Phragmites phragmites*  
(L.) Karst.

10232

*Sporobolus*

2

*littoralis*

*Sporobolus virginicus*  
*littoralis*

10233

*Panicum*

3

*Panicum* aff. *virgatum*

10234

*Andropogon*

2

*pilosus*?

*Andropogon pertusus*  
*panormitanus* Hack.

10235

*Pennisetum*

3

*setosum*

*Pennisetum setosum* (Swartz)  
Rich.

Dec 18

Along stream

68801

Sandy beach

8

Along sea beach

68801

Wet along road  
"Sour grass"  
of Barbados Sour  
grass

Open ground

68801



10236 *Leptochloa*  
virgata  
*Leptochloa virgata* (L.) Beauv.

10237 *Eleusine*  
indica  
*Eleusine indica* (L.) Gaertn.

10238 *Chloris*  
radiata  
*Chloris radiata* (L.) Sw.

10239 *Panicum*  
maximum  
*Panicum maximum* Jacq.

Tobago Spay Side Dec 19  
10240 *Schmanthus*  
pallens  
2

4 of *Schmanthus pallens*  
(Sw.) Munro  
a  
h  
g

Open ground

Wet along road

Wet along road

Open ground

Wet shrubby bank 36 sp



10241 *Oplismenus*  
2 *setaceus?*

*Oplismenus hirtellus* (L.)  
R. & S.

10242 *Panicum*  
2 *pilosum?*

*Panicum pilosum* Sw.

10243 *Leptochloa*  
1 *filiformis*

*Leptochloa filiformis* (Lam.)  
Beauv.

10244 *Syntherisma*  
1 *salon*

*Syntherisma digitata* (Sw.)  
Hitchc.

10245 *Panicum*  
1 *laxum*

*Panicum laxum* Sw.

Moist shady bank

Moist shady bank

Wet along road

Old field  
in bush

along ditch



10246 *Valota* sp.

<sup>2</sup> *Valota* n. sp.

Among brush

10247 *Saxifraga*  
<sup>2</sup> *swartziana*

*Saxifraga swartziana*  
Hitchc.

Along river

10248 *Eleocharis*  
*pallens*

*Eleocharis pallens* (Sw.)  
Munro

Shady bank  
= 280?

10249 *Paspalum*  
*paniculatum*

*Paspalum paniculatum* L.

Wet plantation

10250 *Eriochloa*

<sup>2</sup> *Eriochloa punctata* (L.)  
Hamilt.

ditto



10251 *Chaetochloa flaves*  
/ *Chaetochloa barbata* (Samm.)

10252 *Oplismenus*  
/ *hirtellus*  
*Oplismenus hirtellus* var.

10253 *Valota*  
/ *insularis*  
*Valota insularis* (L.) Chase

10254 *Saxiaria*  
/ *(drumilola)*  
*Saxiaria* n. sp. = 10254

10255 *Saxiaria*  
/ *(drumilola)*  
*Saxiaria* n. sp. = 10254

Mud in plantation

Shady bank

Mud along road

Edge of woods

hill



1 10256 *Lasiacis*  
*divaricata*  
*Lasiacis divaricata* (L.) Hitchc.

1 10257 *Lasiacis*  
(*divaricata*)  
*Lasiacis* n. sp. = 10254

10 10258 *Panicum*  
*gigantoides*  
*Panicum gigantoides* H.B.K.

1 10259 *Leptochloa*  
*scabra*  
*Leptochloa scabra* Nees

10 10260 *Chaetochloa*  
*imberbis*  
*Chaetochloa imberbis* (Poir.) Scribn.

Salp. & waves

dull

19 Shady bank

Along ditch

W. in place  
toto

50 f.



Tobago - Culler of Island

10261

*Lasiacis*  
1  
dus. pedic.

*Lasiacis* n. sp. = 10007

10262

*Lasiacis*  
1  
dus. pedic.

*Lasiacis* n. sp. = 10007

10263

*Schmanthus*  
3  
calicoides?

10263 a

*Schmanthus*  
true  
ined.

10264

*Olyra* latif  
2  
hirsuta

*Olyra latifolia* L.

10265

*Panicum*  
1  
pilosum

*Panicum pilosum* Sw.

Dec 20

Edg of woods

edg of woods  
more in shade than  
261

Deep shady damp  
place

Edg of woods

near woods  
large specimen



10266 *Oplismenus*

<sup>3</sup> *Oplismenus hirtellus* (L.)  
R. & S.

10267 *Raddia*  
<sup>30+</sup> *urbaniana*

Set *Raddia urbaniana* Chase

10268 *Lasiacis* <sup>5</sup> *patentifolia*

<sup>8</sup> *Lasiacis* n. sp. = 10254

10269 *Lasiacis*  
<sup>2</sup> *pub. l.*

*Lasiacis* n. sp. = 10007

10270 *Lasiacis*  
<sup>2</sup> = 268

*Lasiacis* n. sp. = 10254

Shady bank

In deep woods  
on mountain  
Abundant on the floor  
of the forest.

Edge of woods  
Differs from 261 in being  
erect, in having long, slender  
panicles, the branches not reflexed  
Edge of woods

Edge of woods



10271 *Oplismenus*  
2 *holianus*

*Oplismenus hirtellus* (L.)  
R. & S.

10272 *Panicum*  
1 *laxum*

*Panicum laxum* Sw.

10273 *Imperata*  
1 *contracta*

*Imperata contracta* (H.B.K.)  
Hitche.

10274 *Andropogon*  
1 *bicornis*

*Andropogon bicornis* L.

10275 *Saxia*  
2 *pubescens*

*Saxia* n. sp. = 1000?

Shady bank 301

Along ditch 301

Grassy bank 301

Grassy hill 301

Along edge of  
woods 301



10276 Panicum  
paleifolium?  
*Chaetochloa ~~causaridensis~~ ( )*

10277 Arundinella  
martinicensis  
*Arundinella martinicensis*

10278 Paspalum  
saccharum  
*Paspalum saccharoides*  
(Kunth) Nees

10279 Isachne  
(Arundinaceae)  
*Isachne disperma (Sonn.)*  
Doell.

Set Tobago - S.W. ind.  
10280 Arundinella  
martinicensis  
*Arundinella martinicensis*

Set  
1 24

Shady bank  
"Gambolotti" in Tobago

Gassy hill

Clay bluff

Edge of woods  
on hill

Dec 21

Gassy hillside  
4 mi. north of Scarborough  
Culms slender, erect  
above denser below  
6-8 ft high



10281 *Paspalum*  
fasciculat?  
1  
*Paspalum fasciculatum*  
Willd.

Low place along  
stream - Plymouth

10282 *Panicum*  
sulcatum  
2  
*Chaetochloa sulcata* (Aubl.)  
Hitchc.

ditto - Plymouth

10283 *Paspalum*  
distichum  
2  
*Paspalum distichum* L.

Open wet ground  
along stream - Plymouth

10284 *Echinochloa*  
spectabilis  
4  
*Echinochloa spectabilis*  
Link

Swampy borders  
of river - Plymouth

10285 *Paspalum*  
(*conyzaceum*?)  
7  
*Paspalum underwoodii* Nash

Open place along  
road - 2 mi. W of  
S. C. River - very  
glauconous



10286

Sporobolus  
indicusSporobolus indicus (L.)  
R. Br.

10287

Paspalum  
vaginatum

Paspalum vaginatum Sw.

10288

Leptochloa filiformis  
mugosaLeptochloa filiformis  
(Lam.) Beauv.

10289

Eragrostis  
plumosaEragrostis plumosa (L.) W. & A.  
Spreng.

10290

Saccharum  
ciliare

Saccharum ciliare Anders.

Open ground  
Coconut plantation

New Guinea

Wet in Shading  
Grass - ScarceWet in open place  
Grass - ScarceCult. open place  
Grass

end of Tobago



Mindanao -

10291 *Hymenocallis*  
*amplex*

*Hymenocallis amplexicaulis*  
(Rudge) Nees

10292 *Cyperus*

10293 *Leptochloa*  
*scabra*  
*Leptochloa scabra* Nees

10294 *Cyperus*

10295 *Fimbristylis*

Arceuthobium Dec 25

Small pond 1891

Low pond 1891

ditto 1891

ditto 1891

ditto 1891



10296 Cyperus ?

Low ground

10297 Panicum  
polygmatum  
Panicum polygonatum  
Sw.

ditto

10298 Cyperus

ditto

6 mi N.W. of Arima

Dec 25

10299 Paspalum  
decumbens

Shady bank

Paspalum nutans Lam.

10300 Scleria

ditto



10301 *Paspalum*  
2 ~~has~~<sup>no</sup> been  
*Paspalum nutans* Lam.

10302 *Cyperus*  
7

10303 *Cyperus*  
1

10304 *Cyperus*  
1

10305 *Isolema*  
2

Shady bank, forming  
long runners over-  
hanging - same  
10299?

Woods

10301

woods

10303

woods

10304

shrub

10305



10306 Panicum  
2 polygonatum?  
Panicum polygonatum  
Sw.

10307 Kyllinga?

10308 Paspalum pedunculatum  
1 ~~decumbens~~  
Paspalum pedunculatum  
Poir.

10309 Panicum  
1 pilosum  
Panicum pilosum Sw.

10310 Panicum  
30 (sacculatum?)  
See Panicum birdhead  
n. sp.

Quaking grass  
forming long rooting  
runners.

Along ditch

Shady bank  
shrub runners  
spikes

Shady bank

Shady bank



10311

Dieroneura

2

Wood

11801

10312

Cyperus

1

Along ditch

10313

Schizanthus

2

Schizanthus

*Schizanthus tenuis* (Presl)

Shady bank 11801

10314

Cyperus

1

Shady bank 11801

10315

Homalocenchrus

3

hexandrus

*Homalocenchrus hexandrus*  
(Sw.) Kuntze

Pond

11801



10316 Bambusa

2

Bambusa

P-O-5 - 11 Long road

10317 Sarcocolla

see 10317

Sarcocolla

Sarcocolla swartziana Hitchc.

10318 Dichromena

1

10319 Eragrostis

2

conferta

Eragrostis conferta

10320 Panicum

5

(Panicum)

Panicum birdhead n. sp.

cult. in Mr. Andrich's garden. Origin unknown. Large as B. vulgaris. Culm solid - see separate spec. of culm.

woods - young shoot

Along road

Clearing among trees  
high up on hill

Coco-plantation



10321 *Cypripedium* ?  
1

Along road  
woods

10322 *Scleria*  
1

ditto

10323 *Lasiacis*  
(Summit)  
3

*Lasiacis sloanei* (Griseb.)  
Hitchc.

Woods  
From a vigorous upright  
plant

10324 *Lasiacis*  
(Summit)  
2

*Lasiacis sloanei* (Griseb.)  
Hitchc.

ditto - from a more  
shaded plant

10325 *Scleria*  
1

Along road  
woods



10326 *Olyza*  
3 (*Helipolia* - *rupestris*)  
*Olyza arundinacea* HBK

10327 *Olyza*  
1 (*Helipolia* - *rupestris*)  
*Olyza latifolia* L.

P.D.S. *Syntherisma* *paniculata*  
10328 *Syntherisma* *paniculata* (L.) Nash  
Dec 28  
*Syntherisma paniculata* (L.) Nash

10329 *Eragrostis*  
1 *Eragrostis tephrosanthos*  
*Schult.*

10330 *Scirpus*  
*Fimbristylis*

Wood - from  
vigorous shoot

Wood - from big  
over shoot  
preceding - leaves always  
green and flowers white



10331

Kyllinga

10332

Eriochloa

first glume present hyaline

*Eriochloa subglabra* Nash

10333

Cyperus

10334

Cyperus

Piarco Savanna

10335

Thrasya

3

*Thrasya*

hairy

forming large prostrate  
flowering branchesSouth of Browes Dec 28  
A wet sandy savanna



10336 *Paspalum*  
1 *Paspalum* indet.

10337 *Paspalum*  
2 *serpentinum* Hochst.  
type from Surinam  
*Paspalum serpentinum*  
Hochst.

10338 *Paspalum*  
*Paspalum pulchellum*  
Kunth

10339 *Axonopus*  
1 (*Cabrera*) *pulex*  
*Axonopus pulcher* (Willd.)  
probably

10340 *Paspalum*  
4 *popillosum*!  
*Paspalum multicaule* Poir.



10341 *Physocarpus*

1

10342 *Trachypogon*  
*microlophus*

*Trachypogon plumosus*  
(H & B) Nees

10343 *Panicum*  
(cliff)

*Panicum laxum* Sw.

10344 *Eragrostis*

13 *Eragrostis* indet.

10345 *Andropogon*  
*leucostachyus*

*Andropogon leucostachyus*?



10346

*Panicum*

2

~~sternodes~~

*Panicum sternodes* Hubbard

10347

*Panicum*

12

(near *sternodes*)

*Panicum sternodes* Griseb.

10348

*Andropogon*

*spathiflorus*

*Andropogon spathiflorus* Kunth

10349

*Panicum*

2

(*cyaneum*)

*Panicum cyaneum* Nees

10350

*Paspalum*

8

*minus?*

*Paspalum pumilum* Nees

*sternodes* Griseb



10351

*Panicum*  
(Lupinus)

*Panicum laxum* Sw.

10352

*Thrasya*

2 *Thrasya* n. sp.

10353

*Paspalum pedunculatum*  
(~~detritum~~)

*Paspalum pedunculatum* Poir.

10354

*Panicum*

1 *Panicum cyanescens*  
Nees

10355

*Rhynchospora*

2



10356 *Sacciolepis*  
Wilfordii

*Sacciolepis myuros* (Sonn.)  
Chase

10357 *Ichnanthus*

*Ichnanthus ichnoder* (Grisb.)  
(Sonn.)

In brush at edge  
of savanna

10358 *Panicum*  
(pilosum)

*Panicum pilosum* Sw.

In savanna at edge  
of savanna

10359 *Cyperus*

10360 *Scleria*

Among shrubs  
at edge of savanna



10361 *Panicum*  
(*lymum*)  
*Panicum latum* Sw.

10362 *Isachne*  
30 *Isachne polygonoides*  
Boell.

10363 *Panicum*  
10 (*ceeroides*)  
*Panicum* birdhead n. sp.

10364 *Panicum*  
3 *Panicum cyaneum* Nees

10365 *Rhynchospora* ?  
1

many shrubs  
occupy land at  
edge of savanna

ditto



Mangarella, East Coast

10366 Paspalum

Paspalum underwoodii  
Nash

10367 Homalocenchrus

hexandrus

Homalocenchrus hexandrus  
(Sw.) Ktze.

10368 Oplismenus  
loliaceus

Oplismenus hirtellus (L.)  
R. & S.

10369 Scirpus  
Fimbristylis

10370 Eleocharis

Bay of Sangu Grande Dec 29

Along beach 11891

Swamp near beach 11892

Shade of coconut  
trees 11893

Bush 11894

Marsh near beach 11895



10371

~~Scrips~~  
Fimbristylis

Marsh near beach

10372

Cyperus

Marsh near beach

10373

Cyperus

ditch

10374

Loricaria  
(Cunila)

Wood near beach

+1 Saururus sloanei (Griseb.) Hitchc.

10375

Anthephora

Bush

Anthephora hermaphrodita



10376

*Panicum*  
(mutiliflorum)In wale of swamp  
back of local bush

10377

*Leptochloa*  
*longa**Leptochloa longa* Griseb.Trinidad: Four Roads, Port of Spain,

10378

*Adiantum*Dec. 3, 1912. Shady moist  
woods in cacao plantation.

10379

*Pityrogramma calomelasma*

hab. do.

10380

*Adiantum lucidum* Sw.

hab. do.



10381 *Lygodium* Dec. 3.

hab. do.

10382 *Selaginella*

hab. do.

10383 *Lygodium*

hab. do.

10384 *Adiantum*

hab. do.

10385 *Dryopteris protensa?*

hab. do.



Dec 3

10386 *Adiantum obtusum?*

Ex 22A

Hab. do.

10387 *Dryopteris effusa?*

" "

10388 *Vectaria*

" "

10389 *Adiantum fulvovirentum* L.

" "

10390 *Dryopteris*

" " ~~10390~~



Dec 3

10391 *Blechnum occidentale* L.

Erab

Hab. do.

10392 *Adiantum*

"

"

10393 *Dryopteris*

"

"

10394 *Tectaria martinicensis*

"

"

10395 *Dryopteris tetragona*

"

"



10396

*Phlebodium aureum* (L.)

Dec 3.

Hab. do.

10397

*Dryopteris*

" "

10398

*Lygodium*

" "

10399

*Dryopteris*

---

Trinidad: Port Spain. Dec. 15, 1912

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Savannah, on tree

10400

*Polypodium polypodioides*

---

---



10401

10402

10403

10404

10405



Tobago: Spey Side. Dec. 18-21, 1912

10406 *Blechnum occidentale*

10407 *Dryopteris*

10408 *Pityrogramma cal-  
omelacna*

10409 *Adiantum*

10410 *Polypodium  
vacciniifolium*

Wet shady  
bank

Lab. do.

" "

" "

" "



Manhattan Kan

10411

*Cenchrus*  
*carolinianus*

10412

*Leptoloma*  
*cognatum*

10413

*Sporobolus*  
*cryptandrus*  
*Sporobolus cryptandrus*

10414

*Paspalum*  
*stuebelianum*

✓  
set

10415

*Chloris verticillata*  
*Chloris*  
*verticillata*

✓  
set

June 24 - 1913

Sandy soil in terrace

ditto

ditto

ditto - erect or  
nearly so

Prairie - collins  
campus



10416 *Panicum*  
*praeceus*

Dry hill

10417 *Schedonandus paniculatus*  
*paniculatus*  
✓ set

Dry hill - in  
brush - part of  
base - inflorescence  
ascending - later decumbent  
Prairie -

10418 ~~Carex~~ *Stipa*  
*spartea*  
*Stipa spartea*

10419 *Sphenopholis*  
*obtusata lobata*

Prairie

10420 *Tripsacum*  
*dactyloides*

Long prairie  
2-3 feet high



10421 *Elymus*  
*virginicus*  
*Elymus virginicus* L.

10422 *Elymus*  
*virginicus*  
*Elymus virginicus* L.

10423 *Splachnoides*  
*obtusata lobata*

*Adiantum* *Ariz.*  
10424 *Agropyron*  
*Agropyron palmeri*

10425 *Stipa comata*  
*Stipa comata*

*Prairie glaucous*

*Prairie* - small  
bunches,

*Prairie*

June 27.  
Dry hill - Petrified  
Forest - Arizona

Dry hill - Ariz.



10426

*Sporobolus**airoides*Dry hill  
Pulverulent Forest

10427

*Stipa**neomexicana*

ditto

10428

*Pleuraphis jamesii*Dry ground - mesquite  
along R. - Adairman

10429

*Epicampes**nigra*  
(or is it a *Sporobolus*?)*Epicampes nigra*

ditto

10430

*Oryzopsis**hymenoides* (P. & S.)  
Ricker

ditto



10431 *Hordeum jubatum*  
1  
*Hordeum jubatum* L.

10432 *Sporobolus airoides*  
2  
*Sporobolus airoides*

10433 *Aristida*  
✓  
SIT (longistylis?)  
*Aristida fendleriana*  
Grand Canyon

10434 *Koeleria cristata*  
1

10435 *Bromus commutatus*  
1  
*Bromus commutatus* Schrad.

Low ground  
along R.

Dry ground along  
R. - deep bunches

della

June 29 - around Hotel  
Open pine woods

Wet along road



10436 *Agropyron*  
*Agropyron palmeri*

10437 *Bromus*  
*Bromus hordeaceus* L.

10438 *Bromus*  
*Bromus villosus*

10439 *Hordeum*  
*Hordeum murinum* L.

10440 *Sitanion*  
*Sitanion pubiflorum*

Open dry ground  
Rhizomes. Distinct  
different from A. Smith.  
Blacks flat when fresh  
Weed along road

Weed along road

Weed along road

Open pine woods



10441 *Oryzopsis*  
3# *hymenoides*

*Oryzopsis hymenoides* (R & S)  
Picken

10442 *Hordeum*  
/ *quassoneum*

*Hordeum quassoneum*

10443 *Agropyron*  
✓ *molle?*

*Agropyron palmeri*

10444 *Oryzopsis*  
/ *hymenoides*

*Oryzopsis hymenoides* (R & S)  
Picken

10445 *Stipa*  
✓ *comata?*

*Stipa comata*

Open pine woods

along ditch

Open pine woods  
scattered, has thinner  
leaves, but the plants are  
not close together  
dillo - parallel  
narrow.

dillo - small bunches



Grand Canyon June 30

10446 *Stipa*  
/ *Stipa arida*

10447 *Bromus*  
~ *marginalis*  
*Bromus marginalis*

10448 *Stipa*  
~ *Stipa scirbaueri*

10449 *Poa*  
~ *fuldens*  
*Poa longiligula*

10450 *Stipa*  
/ *comata*?  
*Stipa comata intermedia*

Along Pinalo Creek bank  
5000-7000 feet.

graybeech

In a ravine

Dry bank. Black  
coronilla.

Dry bank - common  
therefore this species  
but mostly post maturity

Dry bank



10451 *Stipa*  
2 *Stipa speciosa*

10452 *Agropyron*  
*Elymus triticoides*

10453 *Hordeum*  
*gussoneanum*  
*Hordeum gussoneanum*

10454 *Distichlis*  
*spicata*

Santa Barbara  
10455 *Elymus*  
*triticoides*  
*Elymus triticoides* ✓

Bundles on dry bank

Dry bank - *Stipa*

Along ditch

Sea Beach - Long Beach  
Los Angeles  
July 2.

July 3

Low open ground  
near beach - glaucous  
raetia evenly scattered  
over a considerable area



10456 *Distichlis*  
7 *spicata* ♂ & ♀  
*Distichlis spicata* (L.) Greene

10457 *Polypogon*  
*microsploceus*  
Set *Polypogon monspeliensis*  
(L.) Desf.

10458 *Elymus*  
*condensatus* 012  
Set *Elymus condensatus*

10459 *Avena barbata*  
*barbata*

Set July 8  
10460 *Elymus*  
*condensatus*

Low ground near  
beach; Pistillate has  
purple stigmas.

Low ground near  
beach

Bank near beach - clumps  
pubescent & glabrous - old  
stems with fascicles of branches  
rhizome thick and knobby. Panicle  
compound

Along road side - a  
weed

Dry bank - old fascicles  
foliage culms. = 10458



10461 *Bromus*  
*carinatus*

~~set~~ *Bromus carinatus*

10462 *Agrostis*  
*foliosa*

~~set~~ *Agrostis foliosa*

10463 *Bromus*  
*porteri*

*Bromus laevipes*

Ham. York - Santa Clara

10464 *Castroville*  
*indigorum*

~~set~~ *Castroville indigorum*

10465 *Bromus vulgaris*

*Bromus vulgaris*

~~set~~

Dry hill side - small  
bunches - perennial

Dry bank - perennial  
- slender rhizomes

Shady bank

Wet meadow - Long Spring July 5  
Along road side - a thick  
annual. Panicle spreading  
anthesis.

Shady bank - small clump  
1-3 stems - Panicle drooping like  
B. porteri.



10466 *Bromus*  
*Bromus marginatus*  
(*canadensis*?)

July 7 - Santa Clara Co. Cal.

10467 *Elymus*  
*glaucus*

set *Elymus glaucus*

10468 *Avena*  
*fatua*

set

10469 *Bromus*  
*villosus*

set *Bromus villosus*

10470 *Bromus*  
*canadensis*

ditto

near Wrights

Edge of orchard  
on hills

Weed in field  
ditto

Weed in field - ditto

ditto  
probably winter annual



10471 *Elymus*  
2 *mollis*

*Elymus mollis*

July 8 - Santa Cruz

10472 *Agrostis*  
*stolonifera*

set *Agrostis stolonifera* L.

July 9 - Summit of Santa

10473 *Bromus*  
*laevipes*

set *Bromus laevipes*

10474 *Poa*  
2 *howellii*

Sanchez - July 14.

10475 *Stipa*  
*occidentalis*

Sandy hillock back  
of beach. Santa Cruz.  
Long rhizomes.

Wet spot - along road  
Blackburn Gulch

Cruz Mt's north of S. Cruz.  
Open grassy slope  
perennial - bunches of  
1-8 culms

ditto - clay bank  
shade

open woods, dry



10476

*Stipa*  
*occidentalis*

Set

*Stipa occidentalis*

10477

*Sitanion*  
*californicum*

Set

*Sitanion californicum*  
S. S. S. S.

10478

*Lagurus*  
*ovalis*

*Lagurus ovalis*

10479

*Bromus*  
*maritimus*

*Bromus maritimus*

10480

*Agrostis*  
(various)

Set

*Agrostis rossae*

Open dry woods  
among sage brush

ditto

Rocks near cliff  
Gorse, S. Francisco

Border of beds  
Golden Gate Park  
S. Francisco

Dry open woods under  
shade of pines and spruces



10481 *Deschampsia elongata*  
*Deschampsia*  
*elongata*  
Set

dry woods under  
shade of pines & spruce.

10482 *Muhlenbergia*  
*filiformis*  
Set *Muhlenbergia filiformis*

Open grass land  
near Donner Lake

10483 *Muhlenbergia*  
*filiformis*  
/ *Muhlenbergia filiformis*

Open sandy ground

10484 *Bromus*  
*commutatus*  
/ *Bromus commutatus* Schrad.

Open sandy ground  
near Donner Lake

10485 *Poa*  
*pratensis*  
/ *Poa pratensis* L.

Open woods  
apparently native, tall &  
slender - culms scattered



10486 *Danthonia*

7

10487 *Poa*  
*sandbergii*

*Poa sandbergii*

10488 *Poa*  
*olueya?*

*Poa wheeleri*

10489 *Muhlenbergia*

*squarrosa*

*Muhlenbergia squarrosa*

10490 *Melica*

*Melica fugax*

Open sandy meadows  
near Donner Lake

Ditto

Ditto

Ditto

Ditto



10491 *Agrostis*

*Agrostis foliosa*

16

10492 *Poa*

*Poa bolanderi*

set

10493

*Scirpus*  
*calycanth*

set

10494

*Agropyron*  
*tenerrimum*

set

*Agropyron tenerrimum* Vasey

10495

*Hordeum*

(*nodosum*)

set

*Hordeum nodosum*

Open ground in pine  
woods - *Rhizopus*

Open dry <sup>Pine</sup> woods 1491  
Annual

Open moist soil  
annual

Dry open ground  
among sage brush

Open moist ground  
between moist meadow  
- dry sage brush plain -  
bush perennial



10486 *Elymus*  
2 *macounii*  
*Elymus macounii*

10487 *Agropyron*  
2 *canadense*  
*Agropyron canadense*

10488 *Festuca*  
2 *rubra*  
*Festuca rubra* L.

10489 *Elymus*  
2 *triticeoides*  
*Elymus triticeoides*

10490 *Grass*  
8 (lawson?)

Open moist ground  
near Summer Creek  
Glyceria

Open dry ground  
among sagbrush

Open woods  
near moist meadow  
Summer Creek

Open dry grassy  
brush land, before  
green - not glaucous

Open dry woods



10501

Stipa  
Stipa nelsoni

10502

Bromus  
Bromus marginatus

Summit to Mt Lincoln - near

10503

Festuca  
Festuca viridula

10504

Poa  
Poa buckleyana

10505

Poa  
Poa sandbergii

1913

Open pine woods

Woods near Mount  
Mescal - Brown  
CreekSuckee July 15  
Rocky slope - tufts  
green (w/ glaucous) erect  
no rhizomes.Rocky slope - Sangre  
on 243 in a tuft - wet.

Rocky slope - tufted



10506 Melica

4 Melica bella

10507 Poa

1 Poa sandbergeri

10508 Poa

set Poa wheeleri

10509 Poa

set Poa wheeleri

10510 Poa

set Poa wheeleri

Open rocky woods

Rocky slope

Rocky slope - single or  
few in a clump - short  
rhizomes - 7500 ft

Rocky slope - 8000 ft -  
small <sup>clumps</sup> tufts - short rhizomes

Rocky slope - 8000 ft  
rather large tufts



10511 Poa

set *Poa sandbergii*

10512 Poa

set *Poa sandbergii*

10513 Poa

set *Poa gracillima*

4346 - Muck - July 16

10514 Bromus

*Bromus tectorum nudus*  
Klett & Richter

10515 Stipa

(Lemmon)  
set *Stipa viridula*

Open dry gravel and  
flat summit of Mt Lincoln  
usually forming large very firm  
tufts (fairly rings) Pannich brown  
Rough slope of Mt Lincoln  
8000 ft

Rough slope - 7500 ft  
Large tufts - strictly erect

A weed along R  
in dry ground

Rough slope - brush  
6-12 culms a mass -



10516 *Bromus*  
*orcuttianus*

✓ *Bromus orcuttianus*

10517 *Bromus*  
*marginatus* semi-  
nuder

✓ *Bromus marginatus* semi-  
nuder

10518 *Elymus*  
*triticeoides*

✓ *Elymus triticeoides*

Pemo-hu, July 17 1913

10519 *Spartina*  
*gracilis*

✓ *Spartina gracilis*

10520 *Puccinellia*  
*aroides*

✓ *Puccinellia aroides*

Rocky slope - large  
leaves - culms + panicle  
erect, branches stiffly spread-  
ing.

Rocky slope - large  
branches - panicle drooping

Open ground along  
Ry - loose soil

Spartina  
moist meadows

moist meadows - slightly  
alkaline



10521 Poa  
(nevadensis?)

Set Poa nevadensis

10522 Puccinellia  
2 arvensis?

Puccinellia Lemmonii

10523 Bromus  
marginatus

Bromus marginatus

10524 Bromus  
hordeaceus

Bromus hordeaceus L.

10525 Sporobolus  
asperifolius

Set Sporobolus asperifolius

Moist meadows  
Slender, single or few in  
a tuft - pan. slightly drooping  
An important constituent of the  
moist meadows  
with 10520 but more  
slender

Clery pond area  
dry soil

ditto

Moist meadows  
slightly alkaline



10526 *Hordeum*  
*puberulum*  
*Hordeum jubatum* L.

10527 *Hordeum*  
/  
*Hordeum nodosum*

10528 *Agrostis*  
/  
*alba*  
*Agrostis alba* L.

10529 *Hordeum*  
/  
*caespitosum*  
*Hordeum caespitosum*

10530 *Elymus*  
/  
*triticoides*  
*Elymus triticoides*

*Acrostichum*

*delle*

*delle*

*delle*

Dry ground  
Spks slender - spks  
Single at root - well  
10532



10531 *Elymus*  
1 *triticeus*  
*Elymus triticeoides*

10532 *Elymus*  
2 *triticeus*  
*Elymus triticeoides*

10533 *Agropyron*  
1 *tenax*  
*Agropyron tenerum* Vasey

10534 *Elymus*  
2 *condensatus*  
*Elymus condensatus*

10535 *Distichlis*  
2 *spicata*  
*Distichlis spicata* (L.) Greene

Dry ground 10531  
spike compound  
rich DS 32

ditto - usual 10532  
poor - usually  
glaucous but sometimes  
green especially moist soil  
ditto 10533

ditto 10534

moist made 10535  
alkali soil -



10536 *Phleum*  
praleum  
*Phleum pratense*

10537 *Polygoum*  
monspeliense  
*Polygoum monspeliense* (S.)  
Desf.

10538 *Bromus*  
tectorum nudus  
*Bromus tectorum nudus*  
Klett. + Richter

10539 *Onyropsis*  
hymenoides  
*Onyropsis hymenoides* (R. & S.)  
Ricker

10540 *Bromus*  
villosus  
*Bromus villosus*

Along roadside 10501

along ditch 10501

Dry gravel road 10501

Dry open ground 10501

little weed 10501



10541 *Avena*  
1 *falca*

A weed in open  
ground

10542 *Sphaerophorus*  
1 *obtusatus*

Wet meadow

10543 *Buckmannia*  
2 *crucifera*

Along ditch

10544 *Danthonia*  
1 *calycina*

Wet meadow

10545 *Puccinellia*  
1 *arvensis*

*Puccinellia arvensis*

Delto



10546 *Alopecurus*  
1 *aristulatus*

*Alopecurus aristulatus*  
Michx.

10547 *Poa*  
1 = 10521

*Poa nevadensis*

Reno - July 18.

10548 *Dactylis*  
1 *glomerata*

*Dactylis glomerata* S.

10549 *Holcus*  
1 *lanceolatus*

10550 *Agrostis*  
1 *hiemalis*

*Agrostis hiemalis* (Walt.)  
B. S. P.

along ditch 4400'

near mountain 4400'  
pan-breaker short

along road 4400'

along ditch 4400'

along stream 4400'



10551 *Drychamps*  
*cushion*

along stream 10000  
Humboldt Creek  
Canyon

10552 *Agrostis*  
*exarata*  
*Agrostis exarata Trin.*

ditto 10000

10553 *Paniculum*  
*nervosum*  
*Panicularia nervata*

ditto 10000

10554 *Poa*  
3 *Poa nevadensis*

ditto - tall - erect  
clump of 10-25 culms

10555 *Poa*  
6 *Poa nevadensis*  
6

ditto - ditto  
perennial erect & branched  
as culms (culms stiffly)



10556 *Stipa*  
/ *Stipa occidentalis*

10557 *Silene*  
/ *Sitanion californicum*

10558 *Stipa*  
/ *Stipa Thurberiana*

10559 *Sitanion*  
✓ *Sitanion californicum*

~~10560 *Bromus*  
/ *Bromus subvelutinus*~~  
*Bromus subvelutinus*

Dry hill 05201  
" " " "

dell - green 05201

dell 05201

dell - tall 05201  
near slender chin  
10557 - real not so  
fragile

dell 05201



10561 *Stipa*  
1 *occidentalis*  
*Stipa thurberiana*

10562 *Melica*  
set *Melica stricta*

10563 *Alopecurus*  
set *aristulatus*  
*Michx.*

10564 *Poa*  
1 *pratensis*

10565 *Poa*  
1 *compressa*  
*Poa compressa* L.

*ditto*

*ditto*

*ditto* - bunches  
side of river in rocky  
soil

set  
on sand along  
stream - *Hawley Creek*  
*Canyon*

*ditto*

*ditto*  
common here  
than elsewhere



10566 *Poa*  
*Poa nevadensis*

W. Elmer  
Franklin Creek Canyon

10567 *Calamagrostis*  
*Canadensis*  
*Calamagrostis canadensis*

ditto

10568 *Panicum*  
*latifolium*  
*Panicum (latifolium) elatum*  
Nash

ditto

10569 *Elymus*  
*glauco*  
*Elymus glaucus*

ditto

10570 *Bromus*  
*marginatus*  
*Bromus marginatus*

Reedy slope



10571 Festuca  
confinis?  
gt/ Festuca confinis

10572 Festuca  
(subulata?)  
gt Festuca subulata

10573 Poa  
Poa wheeleri

10574 Poa  
1 (Sandbergii)  
Poa sandbergii

10575 Bromus  
1 Marginalis  
seminudus  
Bromus marginalis seminudus

Rocky slope - 1000  
bushes of a dozen culms  
no rhizomes

Moist shady ravine  
Quarter Creek Canyon

Hunter Creek  
Canyon

ditto - large clumps

ditto 1000



10576 *Bromus*  
/ *hordeaceus*

*Bromus hordeaceus* L.

10577 *Solium*  
/ *multiflorum*

*Solium multiflorum* Lam.

10578 *Poa*  
/ *Poa wheeleri*

10579 *Bromus*  
/ *marginatus*

*Bromus marginatus*

10580 *Poa*  
/ *Poa wheeleri*

*delto*

*delto*

*delto*

*delto*

*delto*



10581 *Bromus*  
1 *marginalis?*  
*Bromus marginatus*

10582 *Stipa*  
2 *Stipa* n. 2p.

10583 *Poa*  
2 (*Sandbergii?*)  
*Poa sandbergii*

10584 *Bromus*  
1 *commutatus*  
*Bromus commutatus* Schrad.

10585 *Festuca*  
1 *rubra*  
*Festuca rubra* S.

ditto - not pubes-  
cent nodes

ditto

ditto  
probably = 1057X

ditto

ditto - glaucous



10586 *Bromus*

1 *Bromus marginatus*

10587 *Sitanion*

*Sitanion californicum*

52

Battle Mountain Nev. July 23

10588 *Muhlenbergia*

1 *Richardsoni*?

*Muhlenbergia squarrosa*

10589

*Hordeum*  
*leavesum*

*Hordeum caespitosum*

10590

*Elymus*  
*condensatus*

*Elymus triticoides*

ditto

Reedy slope in dry  
gravel - evergreen poles  
about 10' high & broader  
than 10' 5' 5' 7'  
dry grass in meadows

Wet meadow

Inhumoral flat



10591 *Distichlis*  
✓ *Distichlis spicata*

10592 *Sporobolus*  
2 *annuus*  
*Sporobolus airoides*

10593 *Elymus*  
1 *bullerianus*  
*Elymus triticoides*

10594 *Beckmannia*  
set *erecta*  
*Beckmannia*

10595 *Sporobolus*  
1 *asperifolius*  
*Sporobolus asperifolius*

Wet meadows  
very tender

ditto

ditto

Along wet ditch  
annual

At meadows



10596 Poa  
6 (ulmifolium)  
Poa nevadensis

10596 1/2  
2 Poa nevadensis

10597 Hordeum  
1 nodosum

Hordeum nodosum

10598 Echinochloa  
2 (crispata)

10599 Phalaris  
1 arundinacea

10600 Elymus  
1 robustus

Elymus triticoides

Wet meadow 10601  
are all the specimens  
of this in same? Some are shorter

all the 10601  
perennial

clump with slight  
spreading - panicle heads  
slender

Among willows 10601  
along Humboldt river

Wet meadow 10601  
clumps of 1st rank 1st  
at mouth



10681

10601 English garden  
Cordoba

*Eragrostis orcuttiana*

10602

10692 *Parina*  
*barbipalmarum*

*Varley pulchellus*

Auslen Rec. July 25

106

10603 *Bromus lecturum*

1. *Bromus tectorum* nudus

10604

10604 *Melica*

1 Melica (bella?)

10605

✓10695 *Sloper*

richardsoni

*Stipa comata*

went in further

*del*

Any well above lower



10606

3

Festuca  
occidentalis

Festuca idahoensis

10607

Oryzopsis  
hymenoides

sp. Oryzopsis hymenoides  
(R & S) Ricker

10608

Hordeum  
nodosum

Hordeum nodosum

10609

Hordeum  
murinum

Hordeum murinum

10610

Sitanion  
calyptricum

Sitanion glabrum



✓ 10611 *Agropyron*  
(sp. *spicatum*)  
set *Agropyron vaseyi*

10612 *Stipa*  
✓ *Stipa nelsonii*  
(*condensata*)

10613 *Elymus*  
✓ set *Elymus condensatus*  
(*condensatus*)

10614 *Poa*  
6 *Poa nevadensis*  
in 6<sup>23</sup>  
✓ *Poa nevadensis*  
Austin - Dry hills July 24

10615 *Bromus*  
✓ *Bromus hordeaceus*  
*hordeaceus*  
*Bromus hordeaceus* L.

brush - *axis fragilis*

Large bushes  
among rocks.

Meadow - *Olus* leaf  
very fine Baile but  
Austin



10616

Bromus

1

marginatus

seminudus

*Bromus marginatus seminudus*

10617

Agropyron

1

tenuum

*Agropyron tenuum* Gray

10618

Poa

16

nevadensis ?

*Poa nevadensis*

10619

Agropyron

6

(flexuosum)

*Agropyron flexuosum*

10620

Stipa

2

(turbidaria)

*Stipa turbidaria*

smooth

See is 1023 is mixed  
with this.



10621 *Agropyrum*  
7 *caninum*  
*Agropyron caninum*

10622 *Agropyrum*  
0 *caninum*

10623 *Poa*  
18 *nevadensis*

*Poa nevadensis*

Abundant south of Austin July 27

10624 *Agropyrum*  
3 *subvillosum*

*Agropyron subvillosum*

10625 *Festuca*  
2 *pacifica*

wet, pink, pale  
on glaucous

(canine - some very  
rare 618

between Austin & Carter, Texas

annual



10626

0

*Hordeaceae*

wet in field

10627

3

*Helianthus  
javanicus*

10628

*Bromus*

2

*Bromus porteri frondosus*

along stream

10629

0

*Schaefferia  
claytonii*

litter

10630

0

*Poa  
annua*

litter



10631 *Agrostis*  
1 *exarata*

*Agrostis exarata* Trin.

10632 *Stipa*  
2 *thurberiana*

*Stipa thurberiana*

10633 *Agropyron*  
2 *subvillosum*

*Agropyron subvillosum*

10634 *Elymus*  
1 *condensatus*

*Elymus condensatus*

10635 *Poa*  
1 *compressa*

*Poa compressa* S.

stolon & spl. lvs pubescent  
June 24

Foot hills - showing  
the base, has rhizomes but  
I base rhizomator, the roots  
bending out and downward

along stream - field



10636 Festuca  
/ elatior  
Festuca elatior L.

escaped along stream  
in pasture

10637 Bromus  
/ (hordaceus)  
Bromus hordaceus

used in pasture  
along stream

Austin July 28 - Carter  
10638 Festuca  
/ rubra  
Festuca rubra L.

Ranch to Kingston Ranch Sta.  
Meadows - Kingston

10639 Stipa  
/ richardsonii  
Stipa comata intermedia

Kingston canyon

10640 Poa  
/ Poa nevadensis

dilly - among sage  
brush



10641 Deschampsia  
caespitosa

Meadow - Kingston  
yellow panicle - these  
mixed with the  
purple.  
Meadow - Kingston

10642 Poa  
/ Poa pratensis

10643 Calamagrostis  
Calamagrostis hyperborea

della

10644 Poa  
/ Sandbergii  
Poa sandbergii

Summit, dry hill

10645 Poa  
4 (of color)  
Poa longipedunculata

della - these specimens  
may not all be the same



10646 *Elymus*  
*macounii*  
*Elymus macounii*

10647 *Bromus*  
*Bromus marginatus*

10648 *Poa*  
(nevadensis)  
*Poa nevadensis*

10649 *Paricaria*  
*nervata*  
*Paricaria nervata*

10650 *Muhlenbergia*  
(depurata)  
*Muhlenbergia squarrosa*

Big Creek Canyon

Hills

Dry hills and valleys  
among sage brush  
no rhizomes - glaucous

Springs place  
along Big Creek

Dry Grand-Kings  
Canyon



10651 *Dr. danielsii*  
1 *confusa*

10652 *Bromus*  
1 *hordeaceus?*

*Bromus hordeaceus*

10653 *Agropyron*  
2 *repens*

*Agropyron repens* (L.) Beauv.

10654 *Stipa*  
2 *nelsonii*

10655 *Poa*  
✓ *tridentata?*  
*Stipa*  
*Stipa williamsii*

under Big tree

weed along  
Big Creek

Went in garden  
Carl's Ranch

growing with 633  
but smooth

Big Creek Canyon  
among sage brush  
heads pubescent



10656 *Poa*  
(*hetera*?)  
*Poa longipedunculata*

10657 *Poa*  
(*Sandbergii*)  
*Poa sandbergii*

10658 *Stipa*  
*Stipa williamsii*

10659 *Bromus*  
*Bromus marginatus*

10660 *Agropyron*  
*Agropyron spicatum*

Dry ground

Dry ground

Dry ground  
some what pubescent

della - summit

Dry ground - summit  
seems different from  
var. or common



10661

*Melica**Melica bella*9 ~~HH~~  
HH ~~HH~~  
HH ~~HH~~  
HH ~~HH~~

10662

*Poa**(wheeleri)*

20

set *Poa wheeleri*

10663

*Stipa**(altissima)*set *Stipa occidentalis*

10664

*Poa**leptocoma**testacea*13 ~~HH~~  
HH ~~HH~~  
HH ~~HH~~

10665

*Festuca**ovata* var.set *Poa leptocoma*

delw - Kipler Canyon

Dry ground - summit

Kipler Canyon  
among Sage brushSpring place - Big  
creek

Dry ground - summit



10666 *Sitamon*

*Sitamon californicum*

Set

Kingson Range Nevada

10667 *Poa*

*deloni?*

Set

*Poa longipedunculata*

10668 *Poa*

(pendulicarpa?)

*Poa longiligula*

10669

*Festuca confinis*

*Festuca confinis*

10670

*Bromus parlieri*

*Bromus porteri* (Coulth.) Nash

Among sage brush  
Kingson Canyon

Bunker Hill Mt. (11000 ft) Aug 29  
Dry hill slope above timber  
brush. Old panicle white  
young panicles light yellow  
purple

Bunches upper old heads

above timber line

Among sage brush



10671 Koeleria  
2 crista

upper collared  
stem

10672 Trisetum  
1 speciosum

ditto

10673 Sitamion  
1 Sitamion californicum

D. slope

10674 Ficus  
1 confinis

New summit  
of tree

10675 Poa

2  
Poa longipedunculata

ditto

Two bottles are stamped with  
numbers following this



100

10

/

1

10

/

10



6553



15, 625. Carlin Ranch

